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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/631,885	08/04/2000	Zhengxiang Ma	11-10	1909
7590 08/30/2005 HARNESS, DICKEY & PIERCE, P.L.C.			EXAMINER	
			GHEBRETINSAE, TEMESGHEN	
P.O. BOX 8910 RESTON, VA 20195			ART UNIT	PAPER NUMBER
			2637	
			DATE MAILED: 08/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Α				
	Application No.	Applicant(s)				
	09/631,885	MA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Temesghen Ghebretinsae	2637				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 19 Ja	nuary 2005.					
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	,					
Disposition of Claims						
4) ⊠ Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ⊠ Claim(s) 8-17 and 33-35 is/are allowed. 6) ⊠ Claim(s) 1-3,5-6,18-32 is/are rejected. 7) ⊠ Claim(s) 4 and 7 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	ſ.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 2. ☐ Certified copies of the priority documents 3. ☐ Copies of the certified copies of the priority application from the International Bureau	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary ((PTO-413)				
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa	atent Application (PTO-152)				

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DETAILED ACTION

1. It would be of great assistance to the Office if all incoming papers pertaining to a filed application carried the following items:

- 1. Application number (checked for accuracy, including series code and serial no.).
- 2. Group art unit number (copied from most recent Office communication).
- 3. Filing date.
- 4. Name of the examiner who prepared the most recent Office action.
- 5. Title of invention.
- 6. Confirmation number (See MPEP § 503).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3,5,6 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Winters (5,675,285).

Winters disclose a base station that uses Buttler matrix to evenly split a signal among several amplifiers, comprising: the steps of sharing the amplification of the first and second diversity signal (see fig.3 K and L outputs) between at least two amplifiers; and sharing the amplification of the signal between at least two amplifiers. The sharing steps are carrier out concurrently. The method further includes amplifying first composite signal in the first amplifier (415-1) and amplifying the second composite signal in the second amplifier (415-2). The

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method further includes the steps of: pre-distorting the first composite signal (419) and pre-distorting the second composite signal (419).

Winter differs from the claimed invention in that the first and second signals are not first and second diversity encoded signals. However, since the use of diversity signal for diversity transmitting is well know in the art and since the system of Winters is able to transmit N-signals, it would have been obvious to one of ordinary skill in the art to modify Winters for simply replacing the N-signal with N-diversity encoded signal as well, for utilizing advantages provided by diversity transmitting such as signal improvement in fading situation.

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 18-23,24-31 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 7 and 11 of U.S. Patent No. 6,859,643. Although the conflicting claims are not identical, they are not patentably distinct from each other because both (the patent and application) disclose a

transmitter comprising: a digital first device for forming at least first and second composite, the digital first device including a digital predistorter having an input coupled to the digital first device, the digital predistorter for digitally pre-distorting the first and second composite signals; a first amplifier having an input coupled to the digital predistorter, the first amplifier amplifying the pre-distorted first composite signals to produce an amplified first composite signal; a second amplifier having an input coupled to the digital predistorter, the second amplifier amplifying the pre-distorted second composite signal to produce an amplified second composite signal; and a second device having a first input coupled to an output of the first amplifier and a second input coupled to an output of the second amplifier, the second device forming an amplified version of each of the at least two signals as a function of at least the amplified first and second composite signals.

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Response to Arguments

5. Applicant's arguments with respect to claims 1-7 and 32 have been considered but are most in view of the new ground(s) of rejection. The particular limitation "amplifying a second signal to be transmitted without using transmit diversity" cited in the preamble of claim 1 and 32 is not given weight because it is not claimed in the body of the claims.

Allowable Subject Matter

6. Claims 4 and 7 are objected to as being dependent upon a rejected base claim. but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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7. Claims 8-17 and 33-35 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temesghen Ghebretinsae whose telephone number is 571-272-3017. The examiner can normally be reached on Monday-Friday from 8 to 6. The examiner can also be reached on alternate.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel, can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Temesghen Ghebretinsae Primary Examiner

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T.G.

8/25/05.

TEMESCHEN CHEBRETINSAE

PRIMARY PAAMINER

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